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WHAT IS CLAIMED IS:

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- 1 1. An interface control system for use with,
 2 (1) a communication facility including remote terminals
 3 for individual callers, wherein said remote terminals
 4 may comprise a conventional telephone instrument includ-
 5 ing voice communication means and digital input means
 6 for providing data, (2) a multiple port, multiple format
 7 processor for interfacing a substantial number of
 8 callers in any of a plurality of formats to concur-
 9 rently process data, and (3) a plurality of live opera-
 10 tor stations with prompting capability, for a plurality
 11 of formats, said interface control system comprising:
 12 call data means for receiving signal-
 13 represented call data from said terminals;
 14 selection means for selecting one of said
 15 formats under control of said call data means to thereby
 16 further specify any defined conditions for a connection
 17 of a call either to said multiple port, multiple format
 18 processor or one of said live operator stations, at
 19 least one of said formats having at least one specified
 20 condition; and
 21 interconnect switch means for providing format
 22 data and controlling connections from a calling remote
 23 terminal to a port of said multiple port, multiple
 24 format processor or one of said live operator stations
 25 under control of said selection means.

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- 1 2. A system according to claim 1 further
 2 including test means to specify test conditions for
 3 certain of said formats and means to test compliance
 4 with said conditions to further control said intercon-
 5 nect switch means.

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1 4. A system according to claim 2 wherein one
2 of said test means comprises means for executing a test
3 based on the history of the calling remote terminal.

1 6. A system according to claim 1 wherein said
2 selection means includes a look-up table for specifying
3 said formats addressed by call data.

1 8. A system according to claim 1 further
2 including a voice generator means for prompting a
3 caller.

1 10. A system according to claim 9 wherein
2 said means for storing includes means for storing
3 billing data.

1 11. A system according to claim 1 further
2 including means to provide an abort signal, the system
3 being responsive to said abort signal to reactuate said
4 interconnect switch means for providing alternative
5 connections with format data.

1 12. A system according to claim 11 further
2 including test means to specify test conditions for
3 certain of said formats and means to test compliance
4 with said conditions to further control said intercon-
5 nect switch means.

1 13. A system according to claim 1 wherein
2 said selection means selects under control of DNIS
3 signals.

1 14. A system according to claim 1 wherein
2 said selection means selects under control of ANI
3 signals.

1 15. A system according to claim 1 wherein
2 said selection means selects under control of equipment
3 type signals.

1 16. An interface control system for use with,
2 (1) a communication facility including remote terminals
3 for individual callers, wherein said remote terminals
4 may comprise a conventional telephone instrument includ-
5 ing voice communication means and digital input means
6 for providing data, (2) a multiple port, multiple format
7 processor for interfacing a substantial number of
8 callers in any of a plurality of formats to concur-
9 rently process data, and (3) a plurality of live opera-
10 tor stations with prompting capability, for a plurality
11 of formats, said interface control system comprising:

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12 call data means for receiving signal-
13 represented call data from said terminals;

14 selection means for selecting one of said
15 formats under control of said call data means to thereby
16 further specify any defined conditions for a connection
17 of a call either to said multiple port, multiple format
18 processor or one of said live operator stations, at
19 least one of said formats having at least one specified
20 condition;

21 test means for testing the specified condi-
22 tions to provide approval signals; and

23 interconnect switch means for providing
24 connections from a calling remote terminal to a port of
25 said multiple port, multiple format processor or one of
26 said live operator stations under control of said
27 selection means and conditional, in conditioned formats,
28 on an approval signal from said test means under control
29 of said approval signals from said test means.

1 17. A process for interfacing a telephonic
2 communication system including remote terminals either
3 with a multiple port, multiple format data processing
4 system, said multiple port, multiple format data proces-
5 sing system for concurrently processing data from said
6 remote terminals according to a plurality of formats, at
7 least one of said formats having at least one condition
8 for a calling terminal, or one of a plurality of opera-
9 tor stations with prompting capability for a plurality
10 of formats, and wherein said telephonic communication
11 system provides call data signals, as to indicate called
12 and calling numbers, said process including the steps
13 of:

14 receiving said call data signals from said
15 telephonic communication system for a calling remote
16 terminal;

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22 testing the selected format in relation to
23 said call data signals; and

24 conditionally interfacing said selected format
25 to a calling terminal under control of said testing of
26 call data signals.